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From jimr@maia.usno.navy.mil Tue Jul 31 14:23:10 EDT 2001
Received: (from jimr@localhost)
        by maia.usno.navy.mil (8.9.3 (PHNE_22672)/8.9.3) id OAA23668;
        Tue, 31 Jul 2001 14:23:10 -0400 (EDT)
From: Jim Ray (USNO 202-762-1444)
Message-Id: <200107311823.OAA23668@maia.usno.navy.mil>
Subject: Re: Recommendations re Distribution of Frequency to Multiple Receivers
To: lang@unb.ca
Date: Tue, 31 Jul 2001 14:23:10 EDT
Cc: jimr@maia.usno.navy.mil
In-Reply-To: ; from "Richard Langley" at Jul 31, 2001 2:31 pm
X-Mailer: Elm [revision: 212.5]
Status: RO

> Hi Jim:
> Are there any recommendations for IGS sites on how to distribute the signal
> from an external frequency standard to multiple receivers at a site? I presume
> a high-isolation, low insertion loss signal splitter appropriate for the
> frequency of the  standard should be used. What if the signal, after
> splitting, has a level  below the recommended threshold for input to the
> receiver? I presume an amplifier could be used. Any recommendations as to
> which type?
> Thanks for any pointers.
> -- Richard
>

Hi Richard,

Chris Ekstrom, a timing colleague, recommends SpectraDynamics, Inc.
(http://www.spectradynamics.com/) for such applications.  In particular,
their High Performance Distribution Amplifier (HPDA) should be fully
satisfactory, for a signal range of 1 to 20 MHz -- see
  http://www.spectradynamics.com/HPDA.shtml
In addition to adding an exceptionally low amount of phase noise, the
temperature sensitivity is only a few ps/C.

Best of luck,
--Jim
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